```
gaattcatctgtcgactgctaccacgggagttccccggagaaggatcctgcagcccgagt 60
cccgaggataaagcttggggttcatcctccttccctggatcactccacagtcctcaggct 120
tccccaatccaggggactcggcgccgggacgctgctATGGACGACATTTTCACTCAGTGC 180
                                      M  D  D  I  F  T  Q  C   8
CGGGAGGGCAACGCAGTCGCCGTTCGCCTGTGGCTGGACAACACGGAGAACGACCTCAAC 240
R  E  G  N  A  V  A  V  R  L  W  L  D  N  T  E  N  D  L  N   28
CAGGGGGACGATCATGGCTTCTCCCCCTTGCACTGGGCCTGCCGAGAGGGCCGCTCTGCT 300
Q  G  D  D  H  G  F  S  P  L  H  W  A  C  R  E  G  R  S  A   48
GTGGTTGAGATGTTGATCATGCGGGGGGCACGGATCAATGTAATGAACCGTGGGGATGAC 360
V  V  E  M  L  I  M  R  G  A  R  I  N  V  M  N  R  G  D  D   68
ACCCCCCTGCATCTGGCAGCCAGTCATGGACACCGTGATATTGTACAGAAGCTATTGCAG 420
T  P  L  H  L  A  A  S  H  G  H  R  D  I  V  Q  K  L  L  Q   88
TACAAGGCAGACATCAATGCAGTGAATGAACACGGGAATGTGCCCCTGCACTATGCCTGT 480
Y  K  A  D  I  N  A  V  N  E  H  G  N  V  P  L  H  Y  A  C   108
TTTTGGGGCCAAGATCAAGTGGCAGAGGACCTGGTGGCAAATGGGGCCCTTGTCAGCATC 540
F  W  G  Q  D  Q  V  A  E  D  L  V  A  N  G  A  L  V  S  I   128
TGTAACAAGTATGGAGAGATGCCTGTGGACAAAGCCAAGGCACCCCTGAGAGAGCTTCTC 600
```

Fig. 1a (continued on page 2/23)

```
C  N  K  Y  G  E  M  P  V  D  K  A  K  A  P  L  R  E  L  L     148
CGAGAGCGGGCAGAGAAGATGGGCCAGAATCTCAACCGTATTCCATACAAGGACACATTC  660
R  E  R  A  E  K  M  G  Q  N  L  N  R  I  P  Y  K  D  T  F     168
TGGAAGGGGACCACCCGCACTCGGCCCCGAAATGGAACCCTGAACAAACACTCTGGCATT  720
W  K  G  T  T  R  T  R  P  R  N  G  T  L  N  K  H  S  G  I     188
GACTTCAAACAGCTTAACTTCCTGACGAAGCTCAACGAGAATCACTCTGGAGAGCTATGG  780
D  F  K  Q  L  N  F  L  T  K  L  N  E  N  H  S  G  E  L  W     208
AAGGGCCGCTGGCAGGGCAATGACATTGTCGTGAAGGTGCTGAAGGTTCGAGACTGGAGT  840
K  G  R  W  Q  G  N  D  I  V  V  K  V  L  K  V  R  D  W  S     228
ACAAGGAAGAGCAGGGACTTCAATGAAGAGTGTCCCCGGCTCAGGATTTTCTCGCATCCA  900
T  R  K  S  R  D  F  N  E  E  C  P  R  L  R  T  F  S  H  P     248
AATGTGCTCCCAGTGCTAGGTGCCTGCCAGTCTCCACCTGCTCCTCATCCTACTCTCATC  960
N  V  L  P  V  L  G  A  C  Q  S  P  P  A  P  H  P  T  L  I     268
ACACACTGGATGCCGTATGGATCCCTCTACAATGTACTACATGAAGGCACCAATTTCGTC  1020
T  H  W  M  P  Y  G  S  L  Y  N  V  L  H  E  G  T  N  F  V     288
GTGGACCAGAGCCAGGCTGTGAAGTTTGCTTTGGACATGGCAAGGGGCATGGCCTTCCTA  1080
V  D  Q  S  Q  A  V  K  F  A  L  D  M  A  R  G  M  A  F  L     308
CACACACTAGAGCCCCTCATCCCACGACATGCACTCAATAGCCGTAGTGTAATGATTGAT  1140
H  T  L  E  P  L  I  P  R  H  A  L  N  S  R  S  V  M  I  D     328
```


Fig. 1a (continued on page 3/23)

```
GAGGACATGACTGCCCGAATTAGCATGGCTGATGTCAAGTTCTCTTTCCAATGTCCTGGT 1200
E  D  M  T  A  R  I  S  M  A  D  V  K  F  S  F  Q  C  P  G    348
CGCATGTATGCACCTGCCTGGGTAGCCCCGAAGCTCTGCAGAAGAAGCCTGAAGACACA 1260
R  M  Y  A  P  A  W  V  A  P  E  A  L  Q  K  K  P  E  D  T    368
AACAGACGCTCAGCAGACATGTGGAGTTTTGCAGTGCTTCTGTGGGAACTGGTGACACGG 1320
N  R  R  S  A  D  M  W  S  F  A  V  L  L  W  E  L  V  T  R    388
GAGGTACCCTTTGCTGACCTCTCCAATATGGAGATTGGAATGAAGGTGGCATTGGAAGGC 1380
E  V  P  F  A  D  L  S  N  M  E  I  G  M  K  V  A  L  E  G    408
CTTCGGCCTACCATCCCACCAGGTATTTCCCCTCATGTGTGTAAGCTCATGAAGATCTGC 1440
 L  R  P  T  I  P  P  G  I  S  P  H  V  C  K  L  M  K  I  C   428
ATGAATGAAGACCCTGCAAAGCGACCCAAATTTGACATGATTGTGCCTATCCTTGAGAAG 1500
 M  N  E  D  P  A  K  R  P  K  F  D  M  I  V  P  I  L  E  K   448
ATGCAGGACAAGtaggactggaaggtccttgcctgaactccagaggtgtcgggacatggt 1560
 M  Q  D  K  *
tggggaatgcacctccccaaagcagcaggcctctggttgcctcccccgcctccagtcat 1620
ggtactaccccagcctggggtccatccccttcccccatccctaccactgtgcgcaagagg 1680
ggcgggctcagagctttgtcacttgccacatggtgtctcccaacatgggagggatcagcc 1740
ccgcctgtcacaataaagtttattatgaaaaaaaaaaaaaaaaaaaa               1789
```

```
                                        I                    II
Csk     .NMKELKLLQ TIGKGEFGDV MLGDYRGN.K VAVKCIKNDA .TAQ....AF
Yes     IPRESLRLEV KLGQGCFGEV WMGTWNGTTK VAIKTLKPGT MMPEAFLQ..
Ctrl    IPWCDLNIKE KIGAGSFGTV HRAEWHGS.D VAVKILMEQD FHAE.RVNEF
B-raf   IPDGQITVGQ RIGSGSFGTV YKGKWHG..D VAVKMLNVTA PTPQQ.LQAF
Ilk     IDFKQLNFLT KLNENHSGEL WKGRWQGN.D IVVKVLDKVR DWSTRKSRDF     235

         III         IV                                 V
Csk     LAEASVMTQ  LRHSNLVQLL GVIVEE.KGG LYIVTEYMAK GSLVDYLRSR
Yes     ..EAQIMKK  LRHDKLVPLY AVVSEE...P IYIVTEFMTK GSLLDFLKEG
Ctrl    LREVAIMKR  LRHPNIVLFM GAVTQPP..N LSIVTEYLSR GSLYRLLHKS
B-raf   KNEVGVLRK  TRHVNILLFM GYSTKP...Q LAIVTQWCEG SSLYHHLHII
Ilk     NEECPRLRI  FSHPNVLPVL GACQSPPAPH PTLITHWMPY GSLYNVLHE.     283

                              VIa                   VIb
Csk     GRSV.LGGDC LLKFSLDVCE AMEYLEGN.. .NFVHRDLAA RNVLVS.E
Yes     EGKF.LKLPQ LVDMAAQIAD GMAYIERM.. .NYIHRDLRA ANILVG.D
Ctrl    GAREQLDERR RLSMAYDVAK GMNYLH.NRN PPIVHRDLKS PNLLV.DK
B-raf   ETKFEMI..K LIDIARQTAQ GMDYLHAK.. .SIIHRDLKS NNIFLH.E
Ilk     GTNFVVDQSQ AVKFALDMAR GMAFLH.TLE PLIPRHALNS RSVMI.DE       329
```

Fig. 1b (continued on page 5/23)

```
                VII                                                  VIII
Csk     DNVAKVSDFG LTK.....EA SSTQDTGKLP VKWTAPEALR ...EKKFSTK
Yes     NLVCKIADFG LARLIED.NE YTARQGAKFP IKWTAPEAAL ...YGRFTIK
Ctrl    KYTVKVCDFG LSRLKAS.TF LSSKSAAGTP .EWMAPEVLR ...DEPSNEK
B-raf   DLTVKIGDFG LATVKSRWSG SHQFEQLSGS ILWMAPEVIR MQDKNPYSFQ
Ilk     DMTARIS... MADVKFSFQC PGRM.YA..P .AWVAPEALQ KKPEDTNRSS   372

                  IX                                  X
Csk     SDVWSFGILL WEIYSFGRVP YPRIPLKD.V VPRVEKGY.. KMDAPDGCPP
Yes     SDVWSFGILL TELVTKGRVP YPGMVNRE.V LEQVERGY.. RMPCPQGCPE
Ctrl    SDVYSFGVIL WELAT.LQQP WGNL.NPAQV VAAVGFKCK. RLEIPRNLNP
B-raf   SDVYAFGIVL YELMT.GQLP YSNINNRDQI IFMVGRGYLS PDLSKVRSNC
Ilk     ADMWSFAVLL WELVTR.EVP FADLSNMEIG MK.VALEGL. R.TIPPGISP   418

                                    XI
Csk     AVYEVMKN   CWHLDAAMRP SFLQLREQLE HIKTHEL
Yes     SLHELMKL   CWKKDPDERP TFEYIQSFLE .......
Ctrl    QVAAIIEG   CWTNEPWKRP SFATIMDLLR PL.....
B-raf   PKAMKRLMAECLKKKRDERP LFPQILASIE LLARSLP
Ilk     HVCKLMKI   CMNEDPAKRP KFDMIVPILE KMQDK..                 451
```

Fig. 1b

```
ANKYRIN      -G-TPLH-AA--GH---V--LL--GA--N----
CONSENSUS                     A           D

ANK1      33 HGFSPLHWACREGRSAVVEMLIMRGARINVMNR
ANK2         GDDTPLHLAASHGHRDIVQKLLQYKADINAVNE
ANK3         HGNVPLHYACFWGQDQVAEDLVANGALVSICNK
ANK4         YGEMPVDKAKAPLRELLRERAEKMGQNLNRIPY 164
```

Fig. 1c

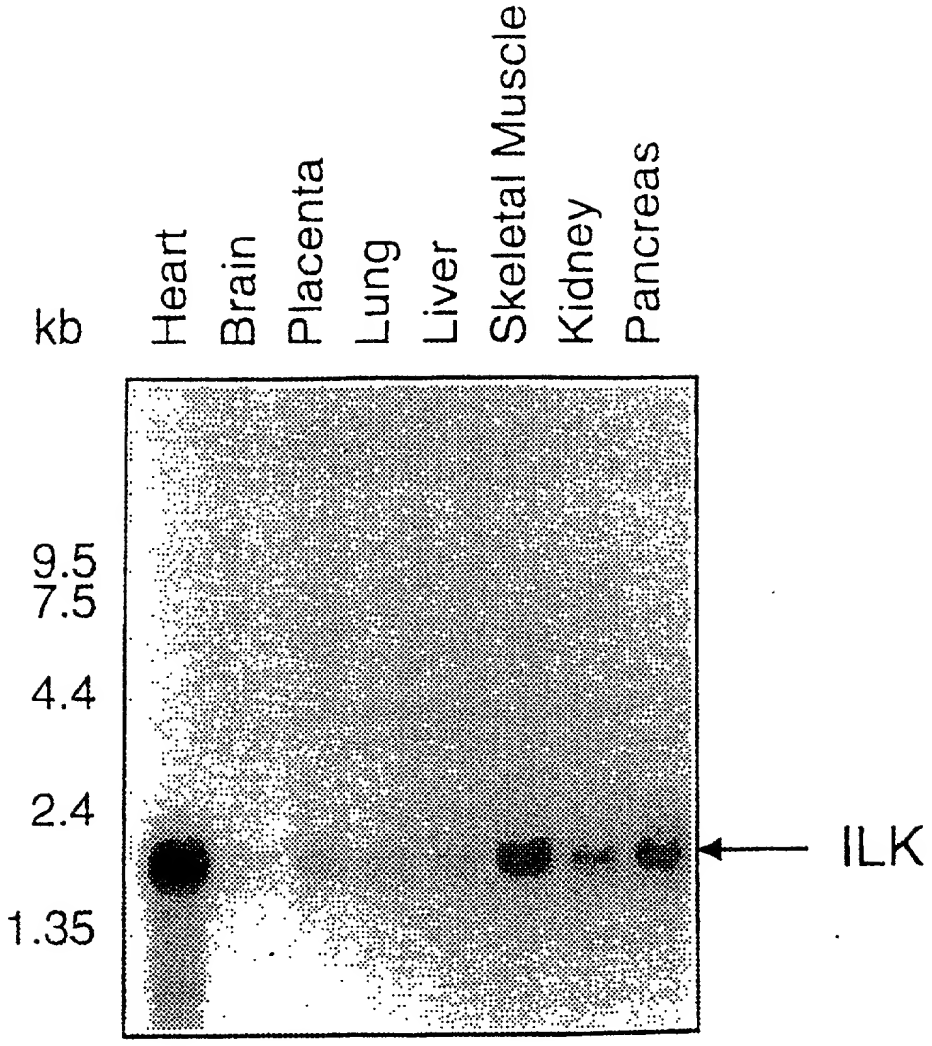
kb
Heart
Brain
Placenta
Lung
Liver
Skeletal Muscle
Kidney
Pancreas
9.5
7.5
4.4
2.4
1.35
ILK

Fig. 1d

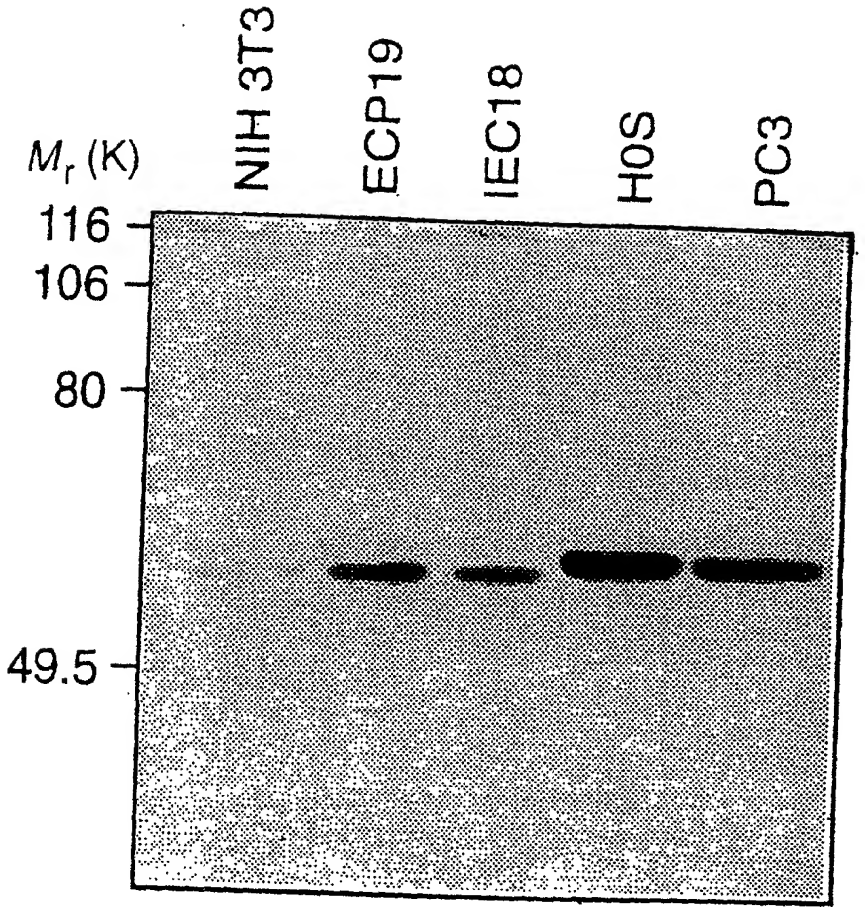

Fig. 1e

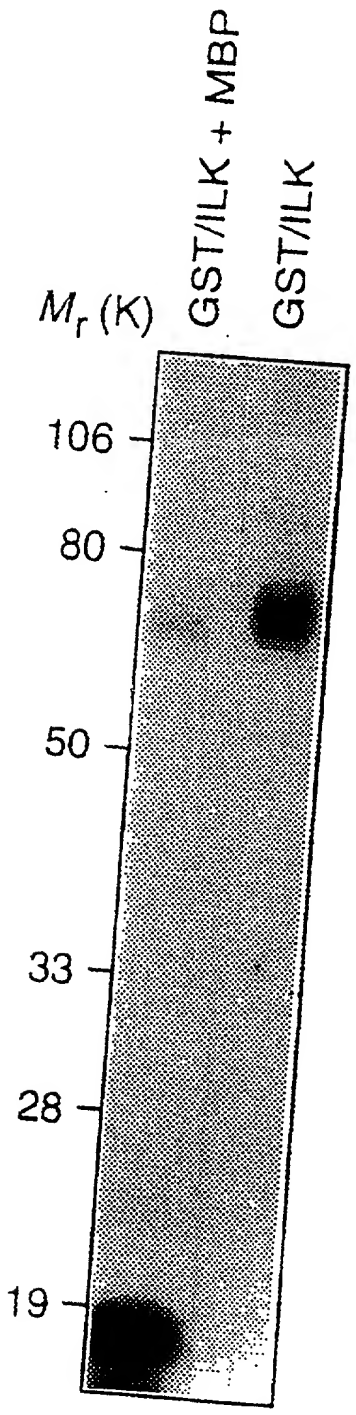

Fig. 2a

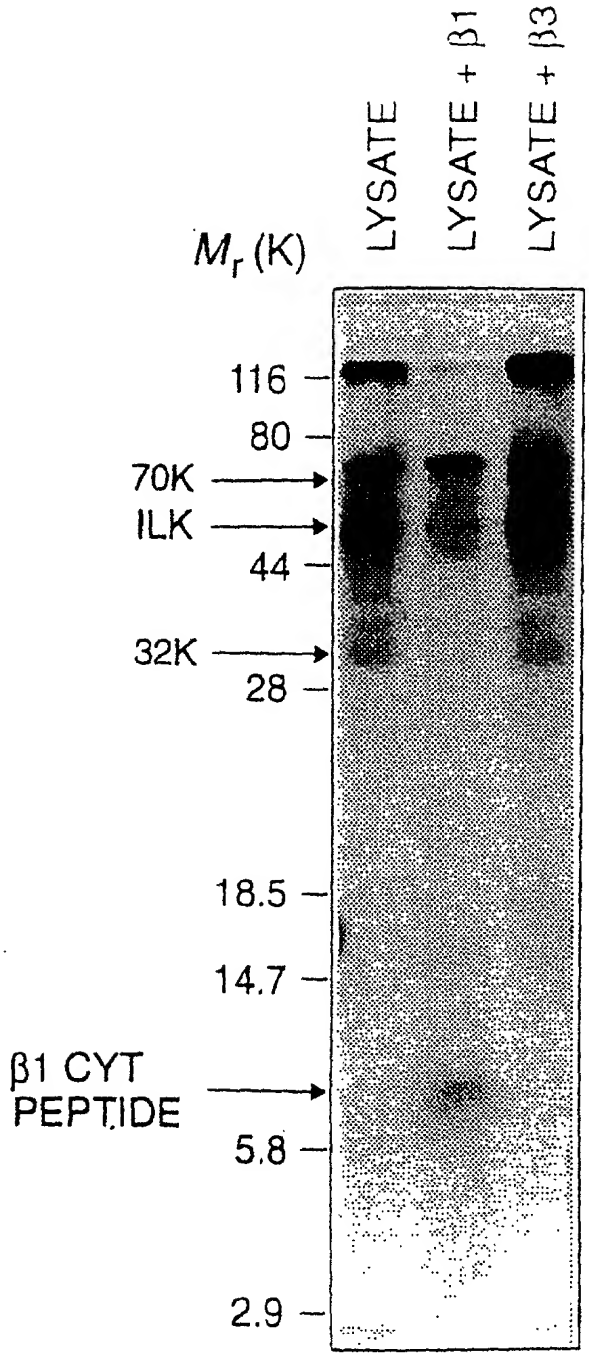
LYSATE
LYSATE + β1
LYSATE + β3
M_r (K)
116
80
70K
ILK
44
32K
28
18.5
14.7
β1 CYT PEPTIDE
5.8
2.9

Fig. 2b

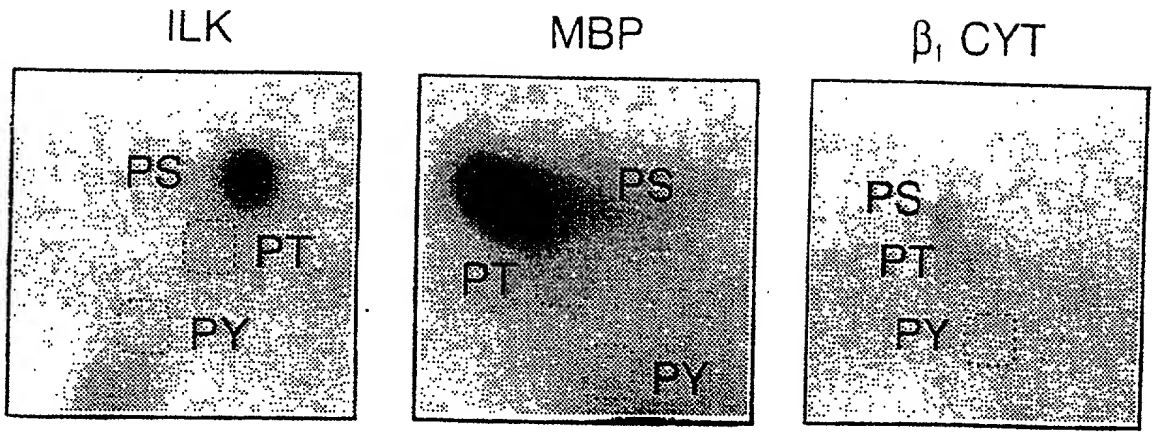

Fig. 2c

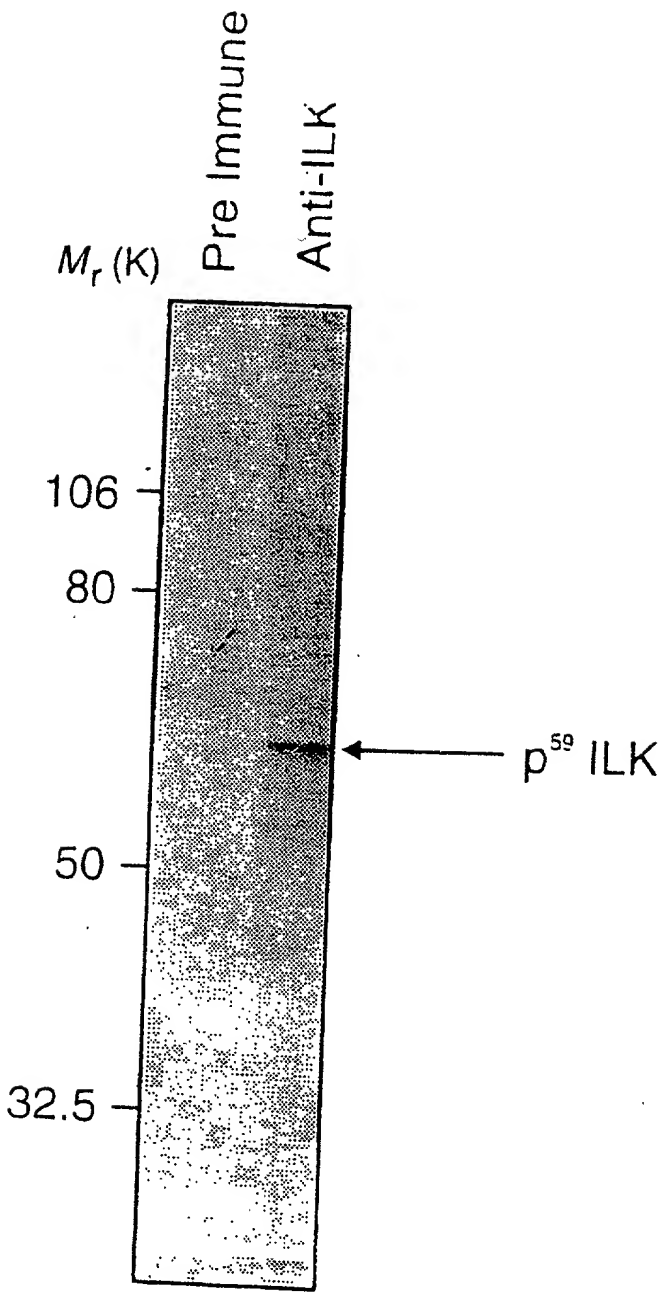

Fig. 3a

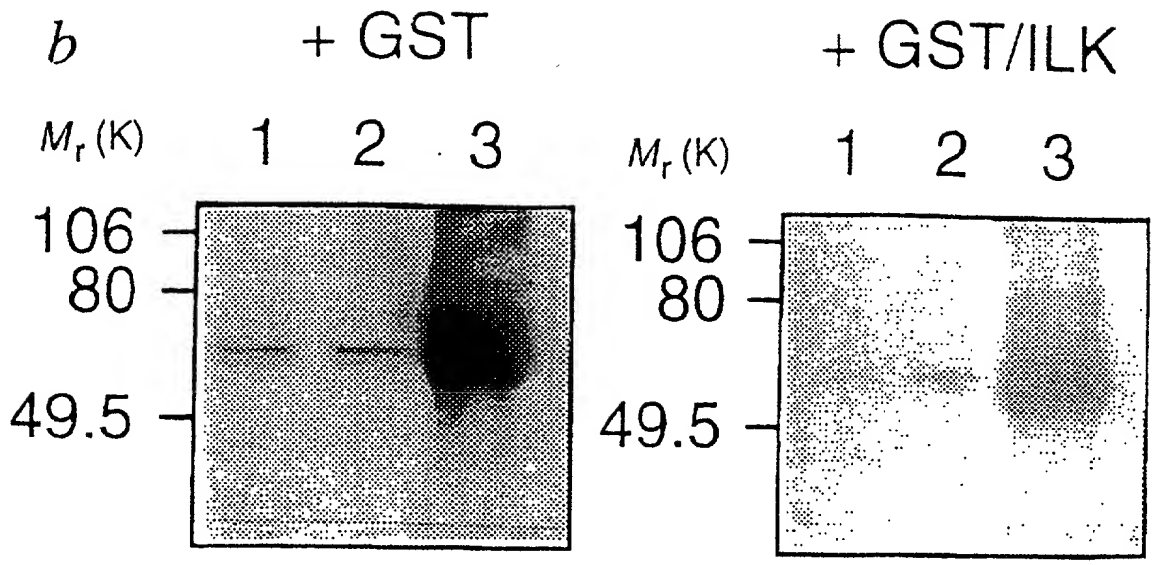

Fig. 3b

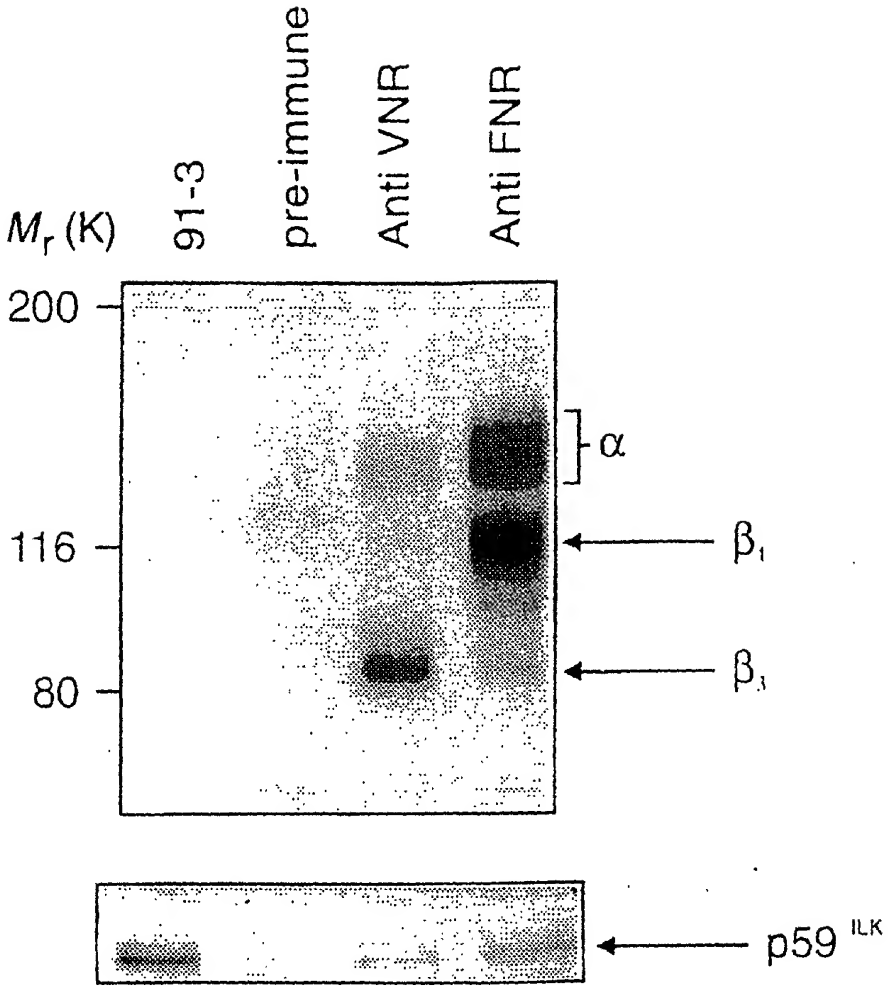
M_r (K)
91-3
pre-immune
Anti VNR
Anti FNR
200
116
80
α
β_1
β_3
p59 ILK

Fig. 3c

Immunoprecipitation: anti β1 monoclonal antibodies

Immunoblot: anti-ILK adsorbed anti-ILK

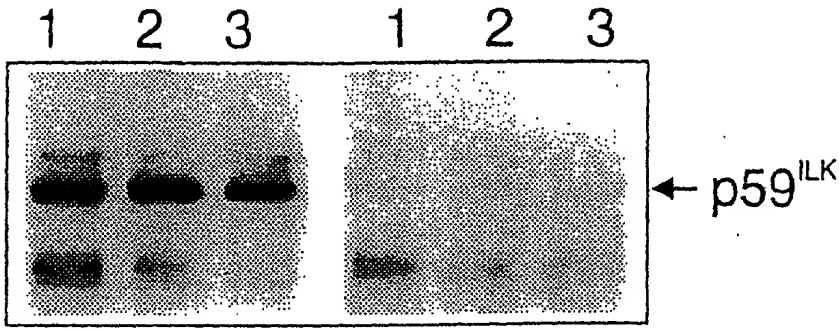

Fig. 3d

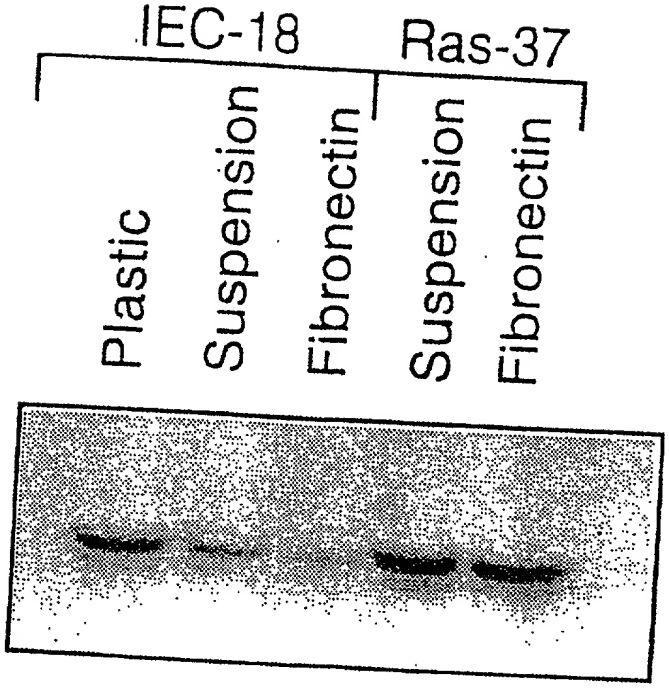
IEC-18
Ras-37
Plastic
Suspension
Fibronectin
Suspension
Fibronectin

Fig. 4a

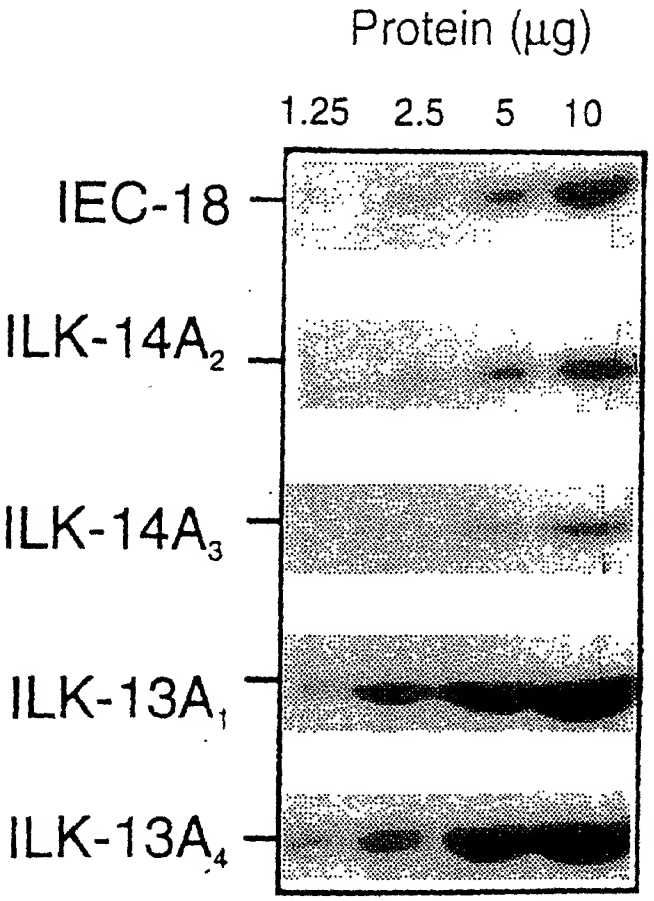
Protein (µg)
1.25
2.5
5
10
IEC-18
ILK-14A2
ILK-14A3
ILK-13A1
ILK-13A4

Fig. 4b

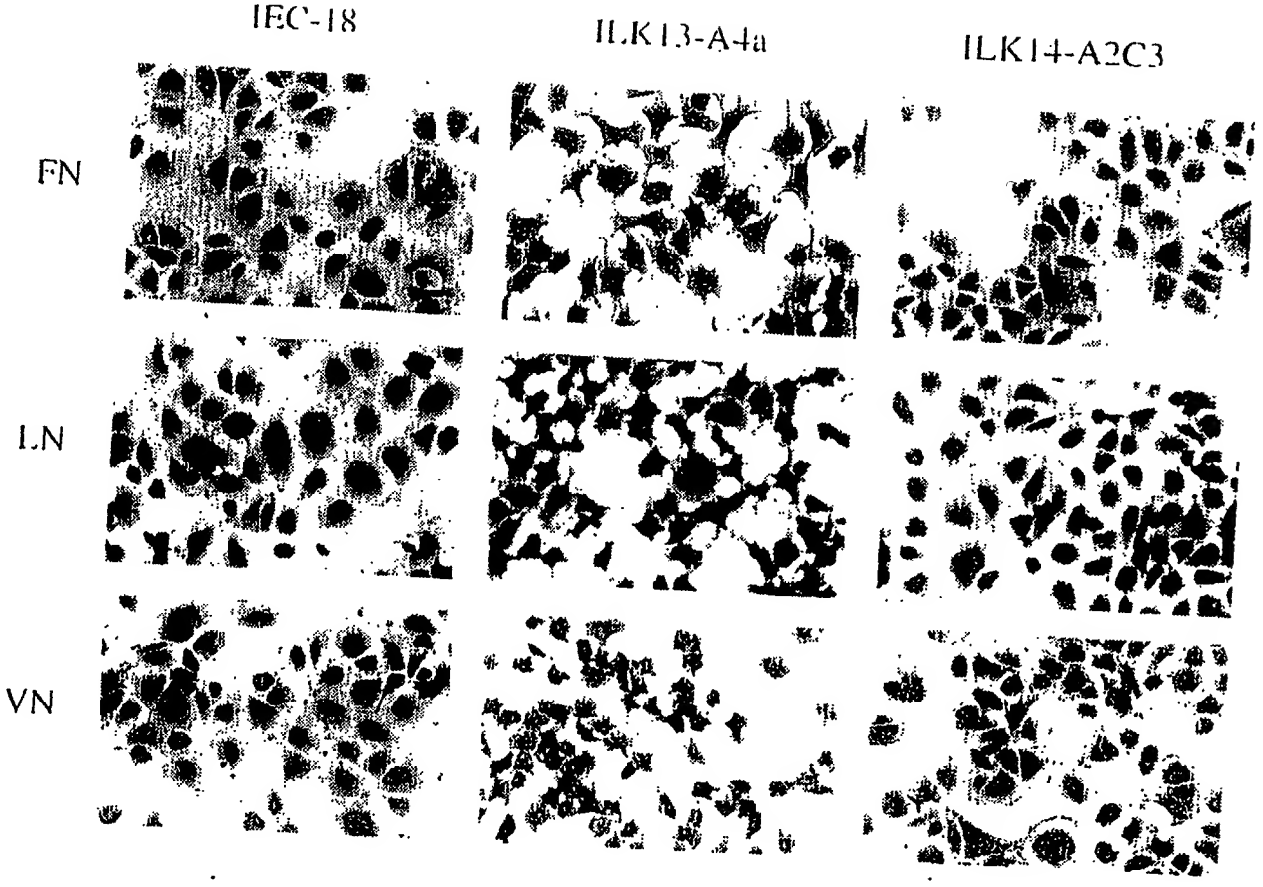

Fig. 4c

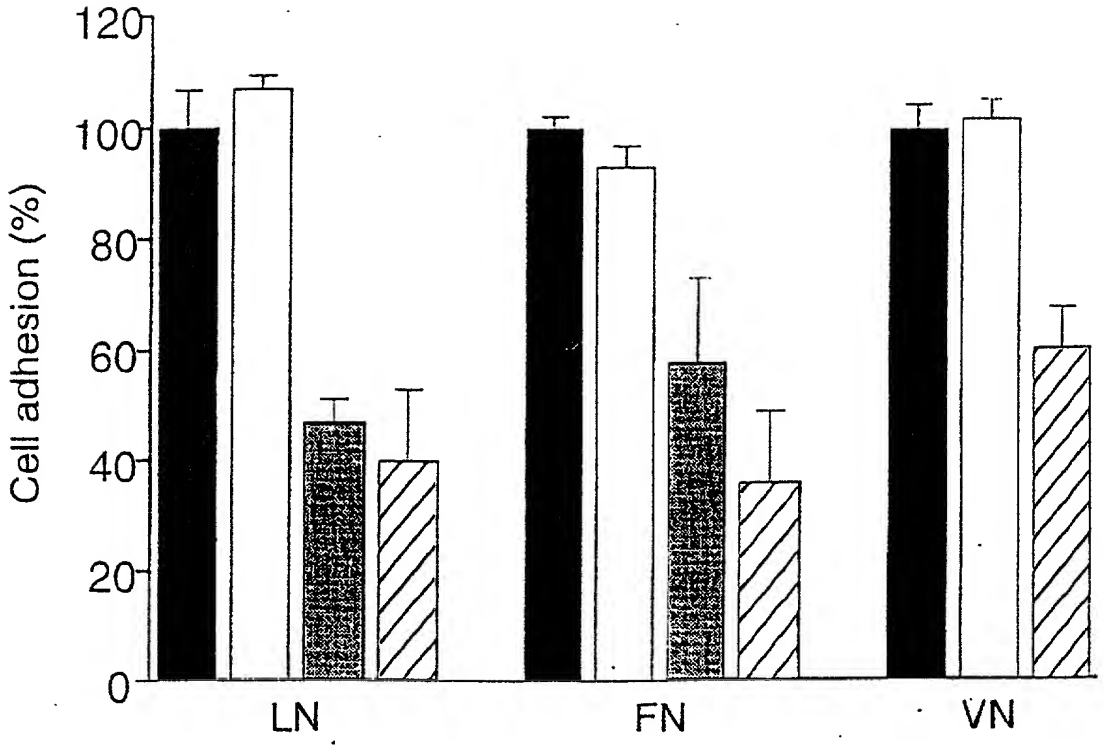

Fig. 4d

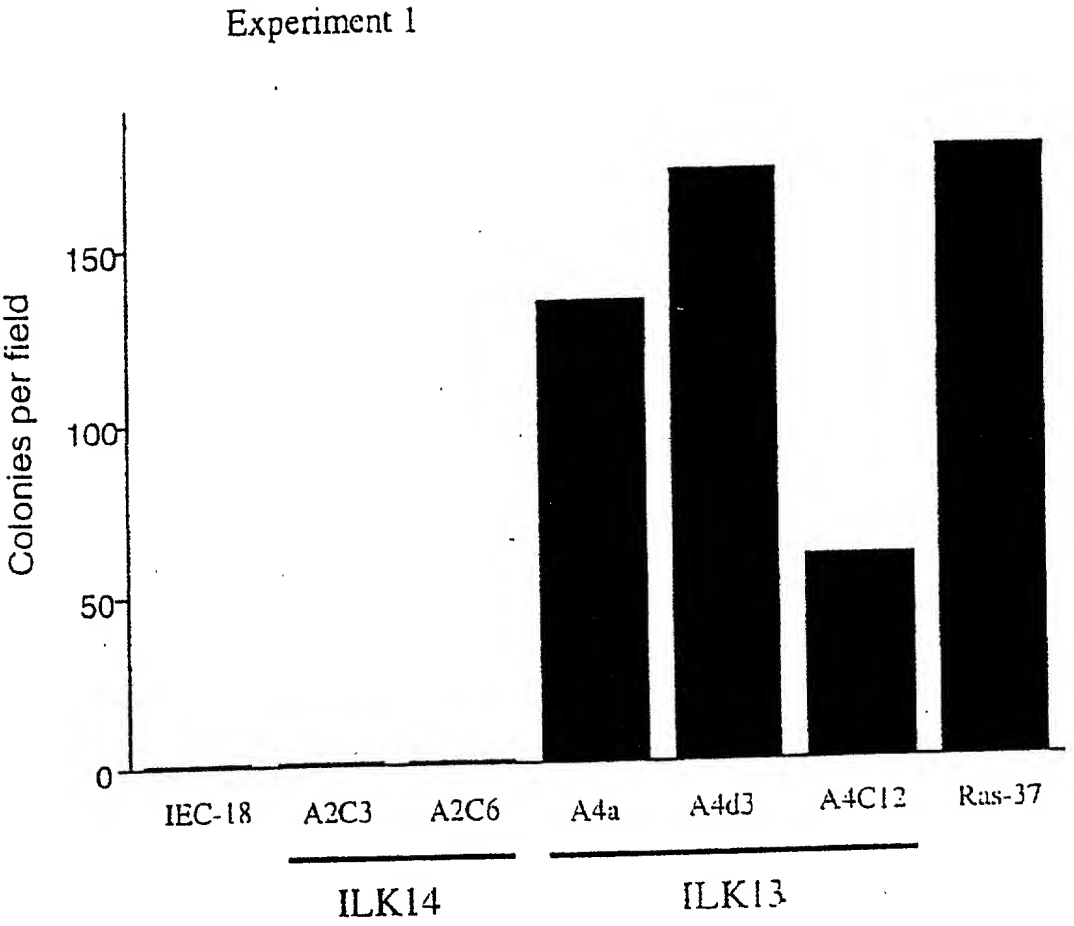

Fig. 4e (continued on page 21/23)

Experiment 2

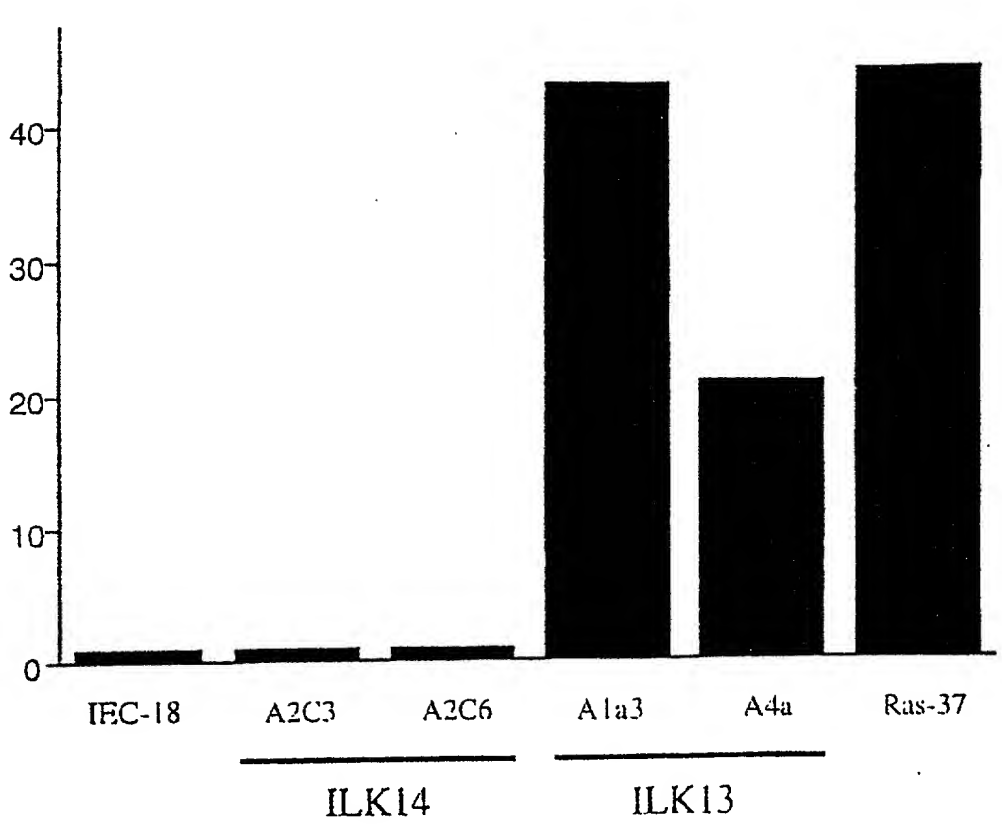

Fig. 4e

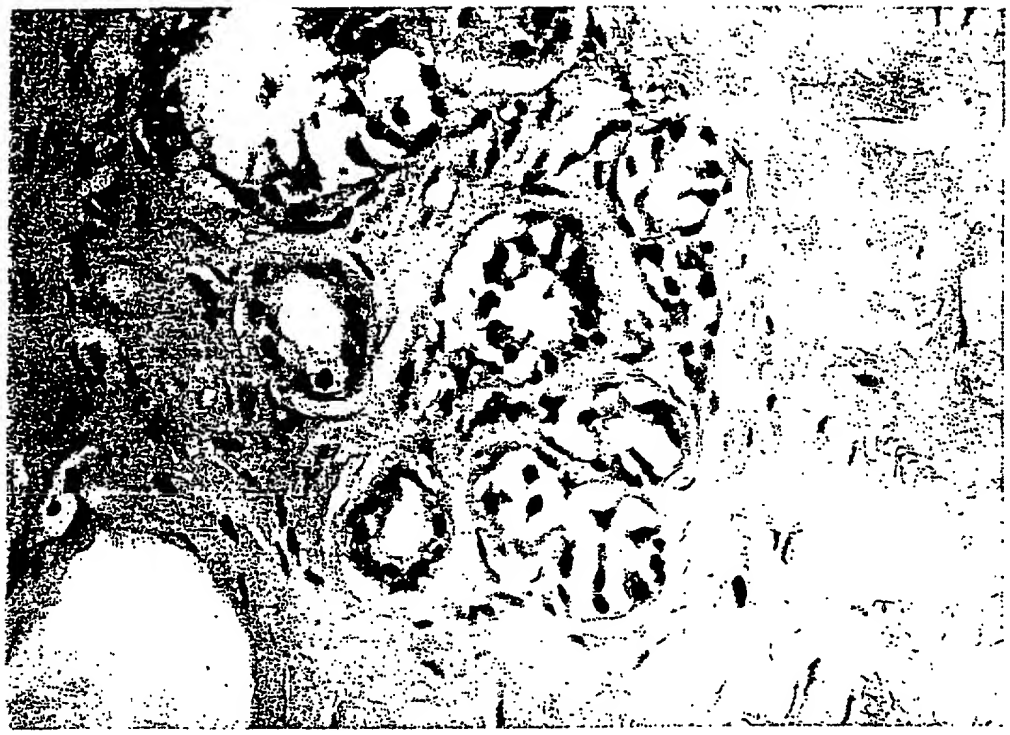

Fig. 5a

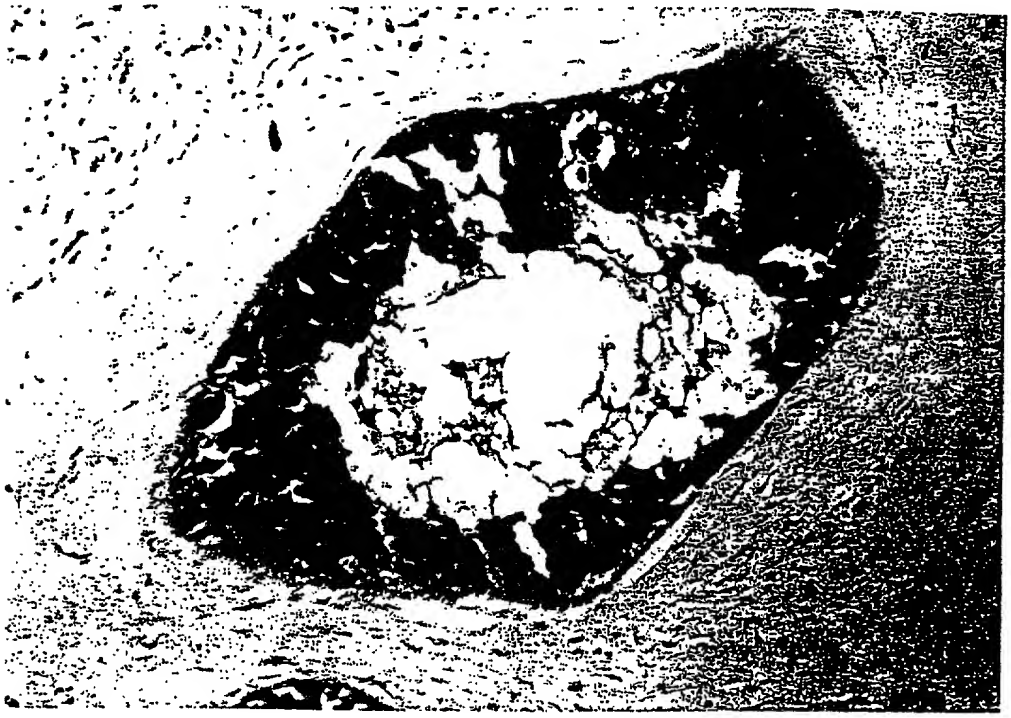

Fig. 5b

Fig. 5c

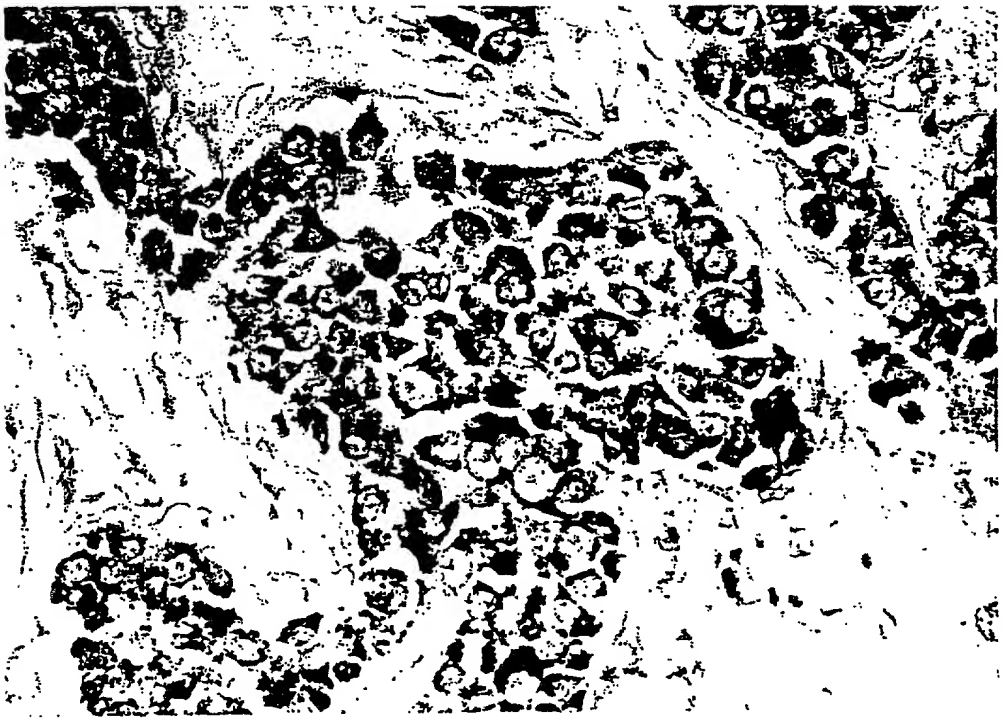

Fig. 5d